Victor M. Reyes Espinoza

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Education

- **Massachusetts Institute of Technology** — Cambridge, MA
  Bachelor of Science in Computer Science and Engineering; GPA: 4.7 — *Aug. 2017 – Exp. Graduation June 2021*

Experience

- **Google** — Mountain View, CA
  Engineering Practicum Intern — *June 2018 – September 2018*
  - **ChromeOS**: Chrome OS is an operating system designed by Google that is based on the Linux kernel and uses the Google Chrome web browser as its principal user interface.
  - **Linux Build Systems**: Updated over 20 packages on Chrome OS to their latest versions. Fixed cross-compilation issues with packages.
  - **Data Visualization**: Wrote a python script to streamline creating dependency graphs into one command.
  - **Linux Kernel**: Wrote FWUPD plugin to interact with Linux kernel and facilitate updating devices through USB-C.
- **Davis Labs @ MIT** — Cambridge, MA
  Undergraduate Research Assistant — *Dec. 2017 – June 2018*
  - **Data Science**: Developed software to parse three dimensional mass spectroscopy data. Optimized parser to utilize less than 50mb of RAM.
  - **Pyteomics**: Utilized Pyteomics library to facilitate the storage and indexing of spectra.
  - **Data Visualization**: Utilized Matplotlib to create graphs and visualize experiment data. Facilitated the navigation of 3D data while viewing 2D graphs.
- **University of California, Irvine** — Irvine, CA
  ASPIRE Team Lead Developer — *Jul 2016 – Aug. 2016*
  - **Raspberry Pi**: A single-board computer with integrated GPIO to enable rapid prototyping.
  - **Stand-alone Internet Radio**: Led the low-level development and fabrication of an infrared controlled Raspberry Pi Pandora internet radio.
  - **Linux LIRC**: Implemented the Linux LIRC libraries to enable remote control interface
  - **Fabrication Technologies**: Utilized computer aided design, laser-cutter, and 3-D printing technologies in UCI's FABWorks Lab.

Projects

- **StayHacking**: 24 hour Hackathon focused on immigrant labor equality. Led full-stack development of Glassroots homepage. Utilized Bootstrap and Javascript to create interactive and engaging website with one-click workflow. Utilized WebApp2, jinja2, and Javascript to serve the user with facts regarding the financial contributions of nearby businesses to private prison companies.
- **Google CSSI**: 3 week intensive coding boot-camp on Python, Javascript, HTML, CSS, Google Web APIs, and back-end services like AppEngine and DataStore. Led the back-end development of a web-app, mid.point, that serves the midpoint between users and relevant activities in the area. Designed and deployed an automatically generated site to showcase photographs and life events. Implementation received a 95% on performance in Googles Lighthouse benchmark.
- **terminal-stock-ticker**: Python utility that displays real-time stock prices and provides insights on investment returns. Utilizes BeautifulSoup to scrape for stock quotes.
- **RSML Toolkit**: Python library for MMORPG economy data retrieval, analysis, and neural net forcasting. Utilizes Keras to create, train, and evaluate a neural net model. Utilizes BeautifulSoup to scrape an online wiki for item price data.
- **ITD?**: Python project demonstrating various machine learning methods for facial recognition in pictures.
- **vmreyes.info**: Personal blog website written from scratch. Utilizes Google AppEngine and Datastore backend. Written in Python, CSS, and Javascript.